Product Evaluation

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RC-540

Effective Date: June 1, 2017
Re-evaluation Date: June 2021

Product Name: PrimeSource Modified Bitumen Roofing Systems

Manufacturer: PrimeSource Building Products, Inc.
333 Manley Street
West Bridgewater, MA 02379
(508) 436-6100

General Description:

- **Grip-Rite APP 160S** is an APP polymer modified bitumen polyester reinforced membrane.
- **Grip-Rite APP Mineral** is an APP polymer modified bitumen polyester reinforced membrane.
- **Derbibase** is an APP modified bitumen glass fiber base sheet for mechanical attachment or Permastic cold adhesive application.
- **PRS Glass Ply IV** is an asphalt coated fiberglass ply sheet for use in hot-mop or mechanically fastened or Permastic cold adhesive application.
- **PRS Glass Ply VI** is an asphalt coated fiberglass ply sheet for use in hot-mop or mechanically fastened or Permastic cold adhesive application.

Limitations and Installation:
General installation Requirements:
All IRC and the IBC requirements must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

For All applications: Roof decks, in which this product is to be installed upon, shall be provided with positive drainage. A minimum roof slope after construction of 1/4" per foot is recommended.

Prime decks were required, in accordance with requirements and recommendations of the primer and deck manufacturer (if applicable). For re-roofing and re-cover applications, prime existing roof surfaces

as necessary with an asphalt primer meeting ASTM D-41 specification and allow to dry prior to installing the PrimeSource roofing system.

The following notes apply to the systems outlined herein:

1. The roof decking must meet or exceed the uplift requirements of the IRC and IBC along with applicable Texas Revisions adopted by TDI. Install as required for resistance to wind loads.
2. Roof framing members shall be spaced a maximum of 24" o.c.
3. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads must expand as noted in the manufacturer's published instructions.
   - Hot asphalt at 20-40 lbs/square.
   - OMG OlyBond 500 Adhesive Fastener in continuous 3/4 to 1" wide ribbons, 12" o.c. using OMG PaceCart of SpotShot dispensing system. Note: OMG OlyBond 500 Green Adhesive may be used in any system listing OMG OlyBond 500 Adhesive.
4. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted.
5. Unless otherwise noted, refer to the following references for bonded base, ply or cap sheet applications.

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE					
Table	**Deck**	**Assembly No.**	**Application**	**Description**	**Page**
2	Concrete	C-1	New or Reroof (Tear-Off)	Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	4
2 (Cont.)	Concrete	C-2	New or Reroof (Tear-Off)	Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	5
2 (Cont.)	Concrete	C-3 and C-4	New or Reroof (Tear-Off)	Bonded Insulation, Bonded Roof Cover	6-7
2 (Cont.)	Concrete	C-5 and C-6	New or Reroof (Tear-Off)	Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	8-9

TABLE 1: PRIMESOURCE ROOF COVERS			
Reference	**Layer**	**Material**	**Application**
APP-TA (APP, Torch-Applied)	Base or Ply	Grip-Rite APP 160S	Torch-Applied
	Cap	Grip-Rite APP 160S, Grip-Rite APP Mineral	

Limitations and Installation: Installation shall be in accordance with the following assemblies:

TABLE 2: PRIMESOURCE MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	**Substrate**	**Vapor Barrier**		**Insulation**		**Roof Cover[1]**		
		Type	**Attach**	**Base**	**Top**	**Base**	**Ply**	**Cap**
#1 (C-1)	Structural concrete, primed with ASTM D41 primer	Derbibase	Torch applied	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	APP-TA	(Optional) APP-TA	APP-TA
Design Pressure (psf)		**Insulation Attachment**						
-77.5		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

Footnote:

1. For roof cover installation, refer to Table 1 above.

Limitations and Installation (cont.):

TABLE 2 (CONTINUED): PRIMESOURCE MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	**Substrate**	**Vapor Barrier**		**Insulation**		**Roof Cover[1]**		
		Type	**Attach**	**Base**	**Top**	**Base**	**Ply**	**Cap**
#2 (C-2)	Structural concrete, primed with ASTM D41 primer	Two or more, PRS Glass Ply IV or PRS Glass Ply VI	Hot asphalt	(Optional) Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch SECUROCK Gypsum-Fiber Roof Board or min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Grip-Rite APP 160S	(Optional) APP-TA	APP-TA
Design Pressure (psf)		**Insulation Attachment**						
-130.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

Footnote:

1. For roof cover installation, refer to Table 1 above.

Limitations and Installation (cont.):

TABLE 2 (CONTINUED): PRIMESOURCE MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	**Substrate**	**Vapor Barrier**		**Insulation**		**Roof Cover[1]**		
		Type	**Attach**	**Base**	**Top**	**Base**	**Ply**	**Cap**
#3 (C-3)	Structural Concrete	None	N/A	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch SECUROCK Gypsum-Fiber Roof Board or min. 1/2 inch DuraBoard attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	APP-TA	(Optional) APP-TA	APP-TA
Design Pressure (psf)		**Insulation Attachment**						
-130.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

Footnote:

1. For roof cover installation, refer to Table 1 above.

Limitations and Installation (cont.):

TABLE 2 (CONTINUED): PRIMESOURCE MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	**Substrate**	**Vapor Barrier**		**Insulation**		**Roof Cover[1]**		
		Type	**Attach**	**Base**	**Top**	**Base**	**Ply**	**Cap**
#4 (C-4)	Structural concrete	None	N/A	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. ¼-inch DensDeck Prime attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	APP-TA	(Optional) APP-TA	APP-TA
Design Pressure (psf)		**Insulation Attachment**						
-160.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

Footnote:

1. For roof cover installation, refer to Table 1 above.

Limitations and Installation (cont.):

TABLE 2 (CONTINUED): PRIMESOURCE MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	**Substrate**	**Vapor Barrier**		**Insulation**		**Roof Cover[1]**		
		Type	**Attach**	**Base**	**Top**	**Base**	**Ply**	**Cap**
#5 (C-5)	Structural concrete, primed with ASTM D41 primer	Two or more, PRS Glass Ply IV or PRS Glass Ply VI	Hot asphalt	Min. 1-inch ACFoam-II, ACFoam-III, ENRGY 3 or ISO 95+ GL attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	Min. 1/4 inch DenDeck Prime attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	APP-TA	(Optional) APP-TA	APP-TA
Design Pressure (psf)		**Insulation Attachment**						
-160.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

Footnote:

1. For roof cover installation, refer to Table 1 above.

Limitations and Installation (cont.):

TABLE 2 (CONTINUED): PRIMESOURCE MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	**Substrate**	**Vapor Barrier**		**Insulation**		**Roof Cover[1]**		
		Type	**Attach**	**Base**	**Top**	**Base**	**Ply**	**Cap**
#6 (C-6)	Structural concrete, primed with ASTM D41 primer	Two or more, PRS Glass Ply IV or PRS Glass Ply VI	Hot asphalt	Min. 1/4 inch DensDeck Prime attached with OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive	None	APP-TA	(Optional) APP-TA	APP-TA
Design Pressure (psf)		**Base Insulation Attachment**						
-210.0		OMG OlyBond 500 or OMG OlyBond 500 Green Adhesive in rows 12-inch o.c.						

Footnote:

1. For roof cover installation, refer to Table 1 above.

Note: Keep the manufacturer's installation instructions at the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.